

# VIPER ACTIVEMQ DEPLOYMENT/CONFIG INSTRUCTIONS

## **Active MQ Listener Deployment**

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Most Viper applications create a Message Driven Bean(MDB) that listens to an ActiveMQ queue. The application's JBOSS instance must be configured to connect to an external ActiveMQ broker located on one or more servers.

The zip file activemq.rar.zip contains a single directory with "out-of-the-box" default configuration and the required files that will allow the application's JBOSS instance to have access to the ActiveMQ broker on host 'jms.ln'.

## **JBOSS/ActiveMQ - Installation Procedures**

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1. Unzip the contents of activemq.rar.zip into the {jboss.deploy.dir}
2. Place the file 'active-jms-ds.xml' into the {jboss.deploy.dir}

The rar and jms-ds are configured with the hostname 'jms.ln'; Ensure the host exists, or that your DNS hosts file is updated to perform the re-direct.

Enclosed below are instructions outlining the procedure to **CHANGE** and **OVERRIDE** the default host name, 'jms.ln', of the ActiveMQ broker server.

## **JMS/JBoss Broker Hostname Configuration – USED TO OVERRIDE DEFAULT**

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The ActiveMQ configuration files are configured with the default hostname 'jms.ln' as the hostname of the server hosting the centralized JMS Broker. To reconfigure JBoss so that it uses an ActiveMQ instance on a different server; follow the procedure outlined below.

**1. Update {jboss.deploy.dir}/activemq-rar-5.1.0.rar/META-INF/ra.xml**

- a. Update the ResourceAdapter/config property/ServerUrl to the [new\_hostname]

```
<config-property-value>tcp://jms.ln:61616</config-property-value>
```

**2. Update {jboss.deploy.dir}/activemq-rar-5.1.0.rar/broker-config.xml**

- a. Update the broker transport Connector uri to the [new\_hostname]

```
<transportConnectors>
    <transportConnector uri="tcp://jms.ln:61616"/>
</transportConnectors>
```

**3. Update {jboss.deploy.dir}/active-jms-ds.xml**

- a. Update the Topic datasource connection factory ServerUrl to the [new\_hostname]

```
<tx-connection-factory>
    .....
    <ServerUrl>tcp://jms.ln:61616</ServerUrl>
    .....
</tx-connection-factory>
```

- b. Update the Queue datasource connection factory ServerUrl to the [new\_hostname]

```
<tx-connection-factory>
    .....
    <ServerUrl>tcp://jms.ln:61616</ServerUrl>
    .....
</tx-connection-factory>
```

**4. Update the Communication Manager properties file inside the ear**

- a. Locate the properties file inside the ear. The file should be at the top level of the EAR archive. The variations include:

- i. pricing.properties
- ii. default.properties
- iii. details.properties

- b. Update the hostname field in the properties file to [new\_hostname]

```
host=jms.ln
```

## ActiveMQ Installation and configuration

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Overtime, this document will include complete configuration options for ActiveMQ. We are currently using it without adjusting any tuning/configuration options.

- 1. Unzip the provided tar to its final destination**

```
tar zxvf apache-activemq-5.3.0-bin.tar.gz
```

- 2. Run Apache ActiveMQ**

```
{activemq.home.dir}/bin/activemq start
```

- 3. Check running status of ActiveMQ**

```
netstat -an | grep 61616  
ps -ef | grep activemq
```

- 4. View Web Admin Interface**

```
http://localhost:8161/admin/
```

- 5. Stop Apache ActiveMQ**

```
Kill -9 [PID]
```